

6BZ7

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For TV Tuners Using Direct-Coupled Cathode-Drive Circuits

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts.	0.4	amp

Direct Interelectrode Capacitances: ^a

	Unit No.1	Unit No.2	
Grid to plate	1.2	1.2	μμf
Grid to cathode, internal shield, and heater.	2.6	—	μμf
Plate to cathode, internal shield, and heater.	1.2	—	μμf
Plate to cathode.	0.12	0.12	μμf
Heater to cathode.	2.6	2.6	μμf
Cathode to grid, internal shield, and heater.	—	5	μμf
Plate to grid, internal shield, and heater.	—	2.2	μμf
Plate of unit No.1 to plate of unit No.2.	0.010 max.		μμf
Plate of unit No.2 to plate and grid of unit No.1	0.024 max.		μμf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Supply Voltage.	150	volts
Cathode Resistor.	220	ohms
Amplification Factor.	36	
Plate Resistance (Approx.).	5300	ohms
Transconductance.	6800	μmhos
Plate Current	10	ma
Grid Voltage (Approx.) for plate μa = 100.	—7	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-3/16"
Maximum Seated Length.	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	1-9/16" ± 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb.T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)

← Indicates a change.



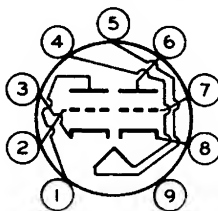
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Basing Designation for BOTTOM VIEW. 9AJ

Pin 1 - Plate of
Unit No.2
Pin 2 - Grid of
Unit No.2
Pin 3 - Cathode of
Unit No.2
Pin 4 - Heater
Pin 5 - Heater



Pin 6 - Plate of
Unit No.1
Pin 7 - Grid of
Unit No.1
Pin 8 - Cathode of
Unit No.1
Pin 9 - Internal
Shield

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 250^b max. volts
PLATE DISSIPATION. 2 max. watts
CATHODE CURRENT. 20 max. ma
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 200^b max. volts
Heater positive with respect to cathode. 200^c max. volts

→ Maximum Circuit Values:

Grid-Circuit Resistance. 0.5 max. megohm

- ^a With external shield JEDEC No.315 connected to internal shield.
→ ^b Under cutoff conditions in direct-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.
^c The dc component must not exceed 100 volts.

→ Indicates a change.

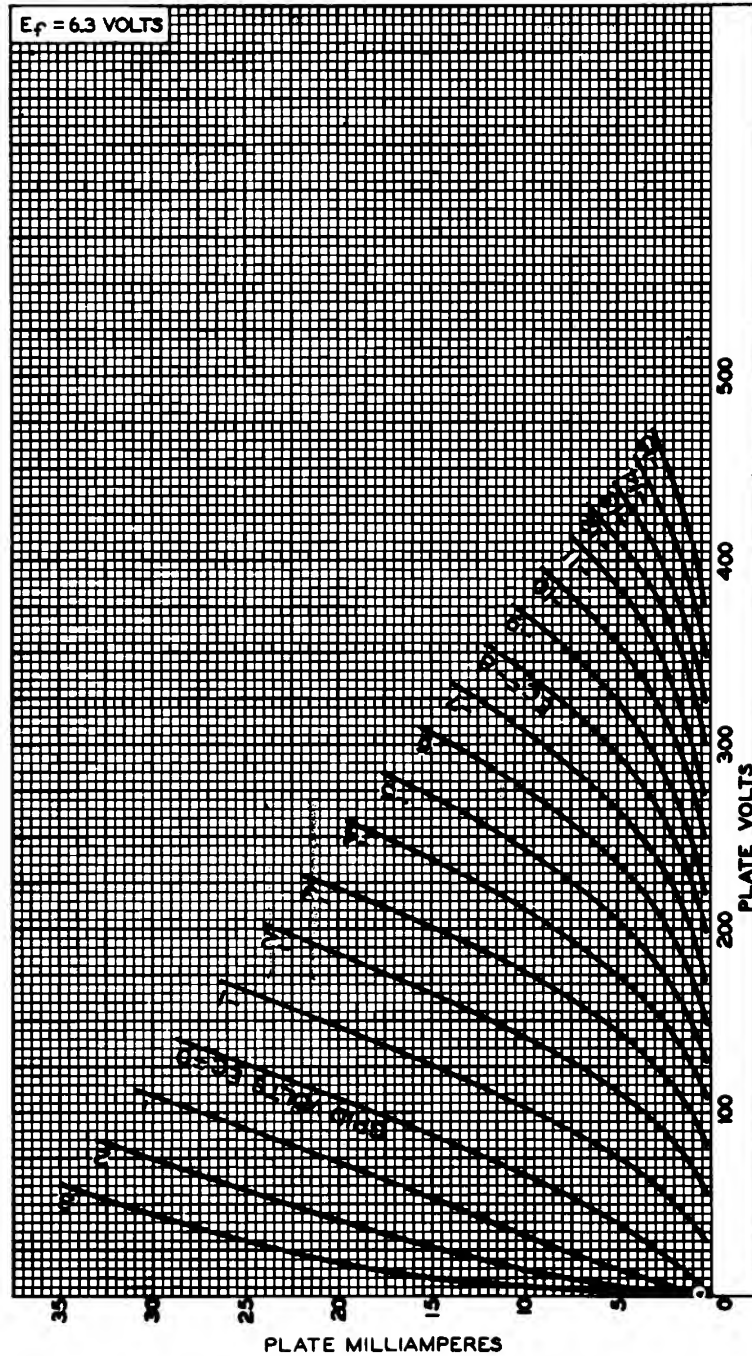
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AVERAGE PLATE CHARACTERISTICS Each Unit



92CM-9231



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